

## M 4.8, 6 km SE of Maria Antonia, Puerto Rico

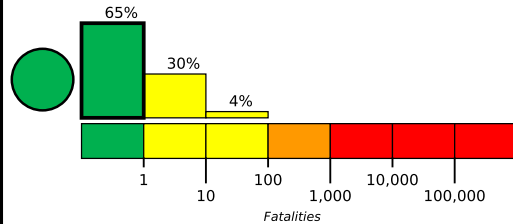
Origin Time: 2020-12-24 16:56:39 UTC (Thu 12:56:39 local)

Location: 17.9331° N 66.8451° W Depth: 10.0 km

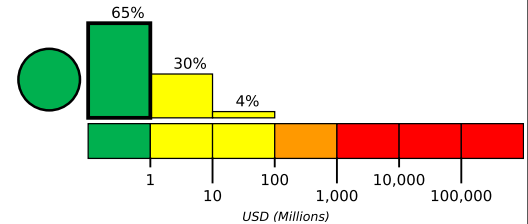
Created: 4 hours, 15 minutes after earthquake

### Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



### Estimated Economic Losses

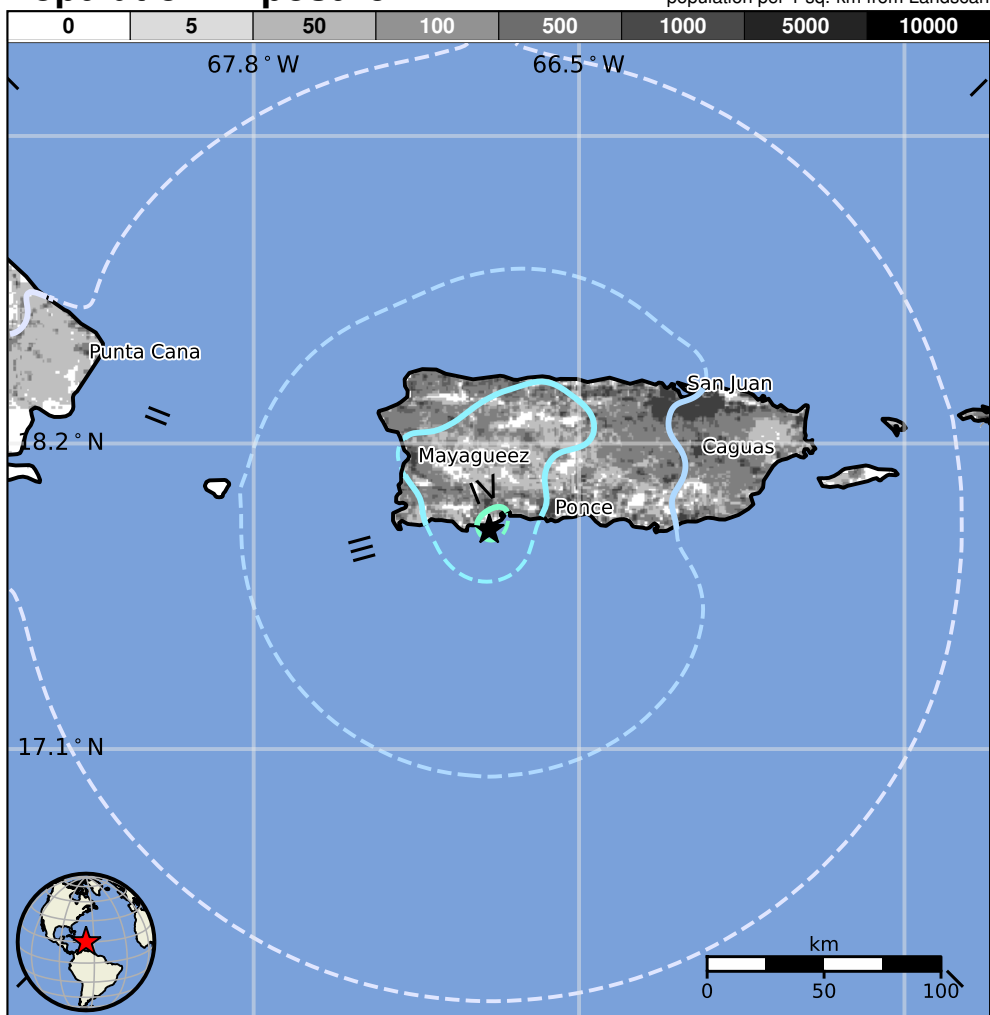


### Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		45k*	2,751k	601k	25k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

### Population Exposure



### Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and informal (metal, timber, GI etc.) construction.

### Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1979-03-23	235	6.6	VI(605k)	0
1980-11-12	335	5.9	VII(87k)	—
1984-06-24	266	6.7	VII(326k)	5

### Selected City Exposure

from GeoNames.org

MMI	City	Population
V	Guayanilla	5k
V	Indios	2k
V	Magas Arriba	1k
V	Fuig	1k
V	Guanica	9k
IV	Maria Antonia	1k
III	<b>Ponce</b>	<b>153k</b>
III	<b>San Juan</b>	<b>418k</b>
II	Bayamon	203k
II	<b>Caguas</b>	<b>87k</b>
II	Carolina	170k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/pr2020359052#pager>

bold cities appear on map.

(k = x1000)

Event ID: pr2020359052